Sigma 2-4-2 Bio

Revision date: October 20, 2026
Supersedes: see Section 16

Section 1 Identification

Product identifier	Sigma 2-4-2 Bio
Other means of identification	2-4-2 Bio
Recommended use and restrictions	Organic granular fertilizer. Fertilizer use only.
Supplier	Sigma AgriScience, LLC · 580 Maxim Dr., Boling, TX 77420
Telephone	+1 (281) 706-8171
Email / website	info@sigma-agri.com · SigmaAgriScience.com
Emergency telephone	+1 (281) 706-8171 · Medical emergency: call 911

Section 2 Hazard(s) identification

Not classified. This product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is not a dangerous substance or mixture under the Globally Harmonized System (GHS).

Signal word: **None**

Hazard pictograms / statements: None

Precautionary statements

- None required.

Other hazards not resulting in classification: None known.

Section 3 Composition / information on ingredients

This product does not contain any hazardous ingredients according to OSHA 29 CFR 1910.1200 criteria.

Composition	Organic granular fertilizer derived from processed poultry manure, feather meal, bone meal and sulfate of potash, with humic acids and a microbial package (Bacillus spp., endomycorrhizal fungi, Trichoderma spp.).
Guaranteed analysis	See product label.

Section 4 First-aid measures

Inhalation	If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Get medical attention if you feel unwell. The exposed person may need to be kept under medical surveillance for 48 hours.
Eye contact	Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin contact	Wash with soap and water. Get medical attention if irritation develops.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.
Most important symptoms and effects	No known significant effects or critical hazards.

Notes to physician	Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5 Fire-fighting measures

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None identified.
Special hazards	No specific fire or explosion hazard.
Firefighter precautions	If possible, prevent runoff water from entering storm drains or bodies of water.

Section 6 Accidental release measures

Personal precautions	Sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.
Containment and cleanup	Contaminated material can generally be disposed of in an approved disposal facility, in accordance with applicable federal, state and local regulations.

Section 7 Handling and storage

Safe handling	Handle in accordance with good industrial hygiene. Wash hands after handling.
Safe storage	Store in a cool, dry place out of reach of children and pets. Avoid prolonged exposure to direct sunlight.

Section 8 Exposure controls / personal protection

Occupational exposure limits	None established.
Engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection	Chemical-resistant, impervious gloves and safety glasses or goggles are recommended when handling product. A dust mask is recommended in dusty conditions.

Section 9 Physical and chemical properties

Appearance	Dark brown, solid granules
Odor	Mild organic / earthy
Water solubility	Slightly soluble
pH, flash point, density and other properties	No data available

Section 10 Stability and reactivity

Reactivity	Non-reactive.
Chemical stability	Stable.
Hazardous reactions	No data available.
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	None.

Section 11 Toxicological information

Likely routes of exposure	No data available.
Symptoms	No data available.
Delayed, immediate and chronic effects	No data available.
Acute toxicity	No data available.

Section 12 Ecological information

Ecotoxicity	No known significant effects or critical hazards.
Persistence and degradability	No known significant effects or critical hazards.
Bioaccumulative potential	No known significant effects or critical hazards.
Mobility in soil	No data available.

Section 13 Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product and any by-products should comply with environmental protection and waste disposal legislation and any regional or local authority requirements. Waste packaging should be recycled. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 Transport information

DOT (ground)	Not regulated
IATA (air)	Not regulated
IMDG (sea)	Not regulated
UN number / shipping name	Not regulated

Section 15 Regulatory information

U.S. federal	No data available.
State regulations	No data available.

Section 16 Other information

Revision date	October 20, 2026
Revision note	Re-issued in the uniform Sigma AgriScience SDS format. Supplier address and contact details updated. Hazard classification and safety content carried over from the superseded SDS.
Supersedes	Sigma 2-4-2 Bio SDS, rev. Jan 5 2017 (older format). Content re-issued in the current Sigma format used for Sigma 5-3-2 Bio (Aug 5 2022).
Ratings	NFPA: Health 0 · Flammability 0 · Reactivity 0. HMIS: Health 0 · Flammability 0 · Physical 0.

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